

Release notes for ENDF/B Development n-070\_Yb\_176  
evaluation



April 26, 2017

- **psyche** Warnings:

1. Non-threshold reaction with Q value differing from PSYCHE's expectations  
*FILE 3 / SECTION 22 / THE CALCULATED Q 6.76686E+05 DISSAGREES WITH THE GIVEN Q 5.70368E+05 (0): Iffy Q*

```
FILE 3
SECTION 22
THE CALCULATED Q 6.76686E+05 DISSAGREES WITH THE GIVEN Q 5.70368E+05
```

- **groupie** Errors:

1. Very small elastic cross section found  
*0: Small elastic*

```
Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)
-----
ENDF/B Input and Output Data Filenames
ENDFB.IN
ENDFB.OUT
... [97 more lines]
```

- **fudge-4.0** Warnings:

1. Missing a channel with a particular angular momenta combination  
*resonances / resolved / MultiLevel\_BreitWigner (Error # 0): missingResonanceChannel*

```
WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 0.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 1.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 2.5 and S = 1.5 for "capture"
```

2. Cross section does not match sum of linked reaction cross sections  
*crossSectionSum label 0: total (Error # 0): CS Sum.*

```
WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.19%
```

3. Cross section does not match sum of linked reaction cross sections  
*crossSectionSum label 1: nonelastic (Error # 0): CS Sum.*

```
WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.67%
```

- **fudge-4.0** Errors:

1. Calculated and tabulated Q values disagree.  
*reaction label 15: n[multiplicity:'2'] + Yb175 (Error # 0): Q mismatch*

```
WARNING: Calculated and tabulated Q-values disagree: -6902912.835601807 eV vs -6864815. eV!
```

2. Calculated and tabulated Q values disagree.  
*reaction label 16: n[multiplicity:'3'] + Yb174 (Error # 0): Q mismatch*

```
WARNING: Calculated and tabulated Q-values disagree: -12725267.36627197 eV vs -12687170. eV!
```

3. Calculated and tabulated Q values disagree.  
*reaction label 17: n + H1 + Tm175 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -8505566.349212646 eV vs -8467469. eV!

4. Calculated and tabulated Q values disagree.  
*reaction label 18: n + H2 + Tm174 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -12798354.59686279 eV vs -12760260. eV!

5. Calculated and tabulated Q values disagree.  
*reaction label 19: Yb177 + gamma (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 5528303.224365234 eV vs 5.5664e6 eV!

6. Calculated and tabulated Q values disagree.  
*reaction label 20: n + He4 + Er172 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 532271.3340454102 eV vs 570368.5 eV!

7. Calculated and tabulated Q values disagree.  
*reaction label 21: H1 + Tm176-s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -3375750.629119873 eV vs -3337653. eV!

8. Calculated and tabulated Q values disagree.  
*reaction label 22: H2 + Tm175-s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -6281000.248291016 eV vs -6242903. eV!

9. Calculated and tabulated Q values disagree.  
*reaction label 23: H3 + Tm174-s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -6541121.656219482 eV vs -6503024. eV!

10. Calculated and tabulated Q values disagree.  
*reaction label 24: He3 + Er174-s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -8442707.5753479 eV vs -8404610. eV!

11. Calculated and tabulated Q values disagree.  
*reaction label 25: He4 + Er173-s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 5768226.143310547 eV vs 5806323. eV!

- njoy2012 Warnings:

1. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (0): HEATR/hinit (4)*

---message from hinit---mf6, mt 16 does not give recoil za= 70175  
one-particle recoil approx. used.

2. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (1): HEATR/hinit (4)*

---message from hinit---mf6, mt 17 does not give recoil za= 70174  
one-particle recoil approx. used.

3. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (2): HEATR/hinit (4)*

---message from hinit---mf6, mt 22 does not give recoil za= 70176  
one-particle recoil approx. used.

4. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (3): HEATR/hinit (4)*

---message from hinit---mf6, mt 28 does not give recoil za= 70176  
one-particle recoil approx. used.

5. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (4): HEATR/hinit (4)*

---message from hinit---mf6, mt 32 does not give recoil za= 70176  
one-particle recoil approx. used.

6. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (5): HEATR/hinit (4)*

---message from hinit---mf6, mt 51 does not give recoil za= 70176  
one-particle recoil approx. used.

7. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (6): HEATR/hinit (4)*

---message from hinit---mf6, mt 52 does not give recoil za= 70176  
one-particle recoil approx. used.

8. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (7): HEATR/hinit (4)*

---message from hinit---mf6, mt 53 does not give recoil za= 70176  
one-particle recoil approx. used.

9. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (8): HEATR/hinit (4)*

---message from hinit---mf6, mt 54 does not give recoil za= 70176  
one-particle recoil approx. used.

10. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (9): HEATR/hinit (4)*

---message from hinit---mf6, mt 55 does not give recoil za= 70176  
one-particle recoil approx. used.

11. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (10): HEATR/hinit (4)*

---message from hinit---mf6, mt 56 does not give recoil za= 70176  
one-particle recoil approx. used.

12. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (11): HEATR/hinit (4)*

```
---message from hinit---mf6, mt 57 does not give recoil za= 70176
one-particle recoil approx. used.
```

13. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (12): HEATR/hinit (4)*

```
---message from hinit---mf6, mt 58 does not give recoil za= 70176
one-particle recoil approx. used.
```

14. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (13): HEATR/hinit (4)*

```
---message from hinit---mf6, mt 59 does not give recoil za= 70176
one-particle recoil approx. used.
```

15. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (14): HEATR/hinit (4)*

```
---message from hinit---mf6, mt 60 does not give recoil za= 70176
one-particle recoil approx. used.
```

16. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (15): HEATR/hinit (4)*

```
---message from hinit---mf6, mt 61 does not give recoil za= 70176
one-particle recoil approx. used.
```

17. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (16): HEATR/hinit (4)*

```
---message from hinit---mf6, mt 62 does not give recoil za= 70176
one-particle recoil approx. used.
```

18. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (17): HEATR/hinit (4)*

```
---message from hinit---mf6, mt 63 does not give recoil za= 70176
one-particle recoil approx. used.
```

19. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (18): HEATR/hinit (4)*

```
---message from hinit---mf6, mt 91 does not give recoil za= 70176
one-particle recoil approx. used.
```

20. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (19): HEATR/hinit (4)*

```
---message from hinit---mf6, mt203 does not give recoil za= 69176
one-particle recoil approx. used.
```

21. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (20): HEATR/hinit (4)*

```
---message from hinit---mf6, mt204 does not give recoil za= 69175
one-particle recoil approx. used.
```

22. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (21): HEATR/hinit (4)*

```
---message from hinit---mf6, mt205 does not give recoil za= 69174
one-particle recoil approx. used.
```

23. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (22): HEATR/hinit (4)*

```
---message from hinit---mf6, mt206 does not give recoil za= 68174
one-particle recoil approx. used.
```

24. Recoil is not given, so one-particle recoil approximation used.  
*heatr...prompt kerma (23): HEATR/hinit (4)*

```
---message from hinit---mf6, mt207 does not give recoil za= 68173
one-particle recoil approx. used.
```

- njoy2012 Errors:

1. An unidentified mismatch in a photon production sum  
*check...ace consistency check (0): Gamma sum*

```
check photon production sum
  consis: mismatch at 7.835623E-04 gpd= 2.871181E-01 sum= 2.870825E-01
```

2. An unidentified mismatch in a photon production sum  
*check...ace consistency check (1): Gamma sum*

```
check photon production sum
  consis: mismatch at 7.945826E-04 gpd= 2.043461E-01 sum= 2.043707E-01
```

3. An unidentified mismatch in a photon production sum  
*check...ace consistency check (2): Gamma sum*

```
check photon production sum
  consis: mismatch at 8.000000E-04 gpd= 1.765687E-01 sum= 1.765299E-01
```

4. An unidentified mismatch in a photon production sum  
*check...ace consistency check (3): Gamma sum*

```
check photon production sum
  consis: mismatch at 8.033472E-04 gpd= 1.622487E-01 sum= 1.622304E-01
```

5. An unidentified mismatch in a photon production sum  
*check...ace consistency check (4): Gamma sum*

```
check photon production sum
  consis: mismatch at 8.050208E-04 gpd= 1.556728E-01 sum= 1.556980E-01
```

6. An unidentified mismatch in a photon production sum  
*check...ace consistency check (5): Gamma sum*

```
check photon production sum
  consis: mismatch at 8.100416E-04 gpd= 1.384977E-01 sum= 1.384838E-01
```

7. An unidentified mismatch in a photon production sum  
*check...ace consistency check (6): Gamma sum*

```
check photon production sum
  consis: mismatch at 8.117152E-04 gpd= 1.334360E-01 sum= 1.334119E-01
```

8. An unidentified mismatch in a photon production sum  
*check...ace consistency check (7): Gamma sum*

```
check photon production sum
  consis: mismatch at 8.150623E-04 gpd= 1.241347E-01 sum= 1.240987E-01
```

9. An unidentified mismatch in a photon production sum  
*check...ace consistency check (8): Gamma sum*

```
check photon production sum
  consis: mismatch at 8.167359E-04 gpd= 1.198086E-01 sum= 1.198219E-01
```

10. An unidentified mismatch in a photon production sum  
*check...ace consistency check (9): Gamma sum*

```
check photon production sum
  consis: mismatch at 8.200830E-04 gpd= 1.119350E-01 sum= 1.119542E-01
```

11. An unidentified mismatch in a photon production sum  
*check...ace consistency check (10): Gamma sum*

```
check photon production sum
  consis: mismatch at 8.288379E-04 gpd= 9.489016E-02 sum= 9.486650E-02
```

12. An unidentified mismatch in a photon production sum  
*check...ace consistency check (11): Gamma sum*

```
check photon production sum
  consis: mismatch at 8.308984E-04 gpd= 9.142933E-02 sum= 9.146064E-02
```

13. An unidentified mismatch in a photon production sum  
*check...ace consistency check (12): Gamma sum*

```
check photon production sum
  consis: mismatch at 8.350195E-04 gpd= 8.519983E-02 sum= 8.520969E-02
```

14. An unidentified mismatch in a photon production sum  
*check...ace consistency check (13): Gamma sum*

```
check photon production sum
  consis: mismatch at 8.597461E-04 gpd= 5.907110E-02 sum= 5.905458E-02
```

15. An unidentified mismatch in a photon production sum  
*check...ace consistency check (14): Gamma sum*

```
check photon production sum
  consis: mismatch at 8.698096E-04 gpd= 5.210649E-02 sum= 5.209931E-02
```

16. An unidentified mismatch in a photon production sum  
*check...ace consistency check (15): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.005332E-03 gpd= 2.805178E-02 sum= 2.805576E-02
```

17. An unidentified mismatch in a photon production sum  
*check...ace consistency check (16): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.014217E-03 gpd= 2.192799E-02 sum= 2.193025E-02
```

18. An unidentified mismatch in a photon production sum  
*check...ace consistency check (17): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.024879E-03 gpd= 1.965422E-02 sum= 1.965200E-02
```

19. An unidentified mismatch in a photon production sum  
*check...ace consistency check (18): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.068238E-03 gpd= 1.682928E-02 sum= 1.682678E-02
```

20. An unidentified mismatch in a photon production sum  
*check...ace consistency check (19): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.102356E-03 gpd= 1.635135E-02 sum= 1.635426E-02
```

21. An unidentified mismatch in a photon production sum  
*check...ace consistency check (20): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.132566E-03 gpd= 1.700096E-02 sum= 1.699856E-02
```

22. An unidentified mismatch in a photon production sum  
*check...ace consistency check (21): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.158956E-03 gpd= 2.079399E-02 sum= 2.079067E-02
```

23. An unidentified mismatch in a photon production sum  
*check...ace consistency check (22): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.167219E-03 gpd= 2.695854E-02 sum= 2.696231E-02
```

24. An unidentified mismatch in a photon production sum  
*check...ace consistency check (23): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.231951E-03 gpd= 2.308696E-02 sum= 2.308420E-02
```

25. An unidentified mismatch in a photon production sum  
*check...ace consistency check (24): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.638132E-03 gpd= 2.021909E-01 sum= 2.022215E-01
```

26. An unidentified mismatch in a photon production sum  
*check...ace consistency check (25): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.645519E-03 gpd= 1.568279E-01 sum= 1.568445E-01
```

27. An unidentified mismatch in a photon production sum  
*check...ace consistency check (26): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.647479E-03 gpd= 1.476520E-01 sum= 1.476724E-01
```

28. An unidentified mismatch in a photon production sum  
*check...ace consistency check (27): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.651399E-03 gpd= 1.318849E-01 sum= 1.319027E-01
```

29. An unidentified mismatch in a photon production sum  
*check...ace consistency check (28): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.653359E-03 gpd= 1.249923E-01 sum= 1.250119E-01
```

30. An unidentified mismatch in a photon production sum  
*check...ace consistency check (29): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.665271E-03 gpd= 9.354484E-02 sum= 9.355582E-02
```

31. An unidentified mismatch in a photon production sum  
*check...ace consistency check (30): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.671905E-03 gpd= 8.131070E-02 sum= 8.132719E-02
```

32. An unidentified mismatch in a photon production sum  
*check...ace consistency check (31): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.678539E-03 gpd= 7.157517E-02 sum= 7.155230E-02
```

33. An unidentified mismatch in a photon production sum  
*check...ace consistency check (32): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.681856E-03 gpd= 6.739669E-02 sum= 6.737369E-02
```

34. An unidentified mismatch in a photon production sum  
*check...ace consistency check (33): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.685777E-03 gpd= 6.295977E-02 sum= 6.294698E-02
```

35. An unidentified mismatch in a photon production sum  
*check...ace consistency check (34): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.689697E-03 gpd= 5.895365E-02 sum= 5.898858E-02
```

36. An unidentified mismatch in a photon production sum  
*check...ace consistency check (35): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.693617E-03 gpd= 5.542138E-02 sum= 5.543745E-02
```

37. An unidentified mismatch in a photon production sum  
*check...ace consistency check (36): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.697537E-03 gpd= 5.227681E-02 sum= 5.224145E-02
```

38. An unidentified mismatch in a photon production sum  
*check...ace consistency check (37): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.705378E-03 gpd= 4.676310E-02 sum= 4.675836E-02
```

39. An unidentified mismatch in a photon production sum  
*check...ace consistency check (38): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.709298E-03 gpd= 4.435088E-02 sum= 4.436005E-02
```

40. An unidentified mismatch in a photon production sum  
*check...ace consistency check (39): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.713218E-03 gpd= 4.215404E-02 sum= 4.217827E-02
```

41. An unidentified mismatch in a photon production sum  
*check...ace consistency check (40): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.726487E-03 gpd= 3.608045E-02 sum= 3.609839E-02
```

42. An unidentified mismatch in a photon production sum  
*check...ace consistency check (41): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.733121E-03 gpd= 3.362518E-02 sum= 3.364075E-02
```

43. An unidentified mismatch in a photon production sum  
*check...ace consistency check (42): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.779560E-03 gpd= 2.315340E-02 sum= 2.315608E-02
```

44. An unidentified mismatch in a photon production sum  
*check...ace consistency check (43): Gamma sum*

```
check photon production sum
  consis: mismatch at 1.843489E-03 gpd= 1.890325E-02 sum= 1.890568E-02
```

45. An unidentified mismatch in a photon production sum  
*check...ace consistency check (44): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.212636E-03 gpd= 2.259893E-01 sum= 2.259620E-01
```

46. An unidentified mismatch in a photon production sum  
*check...ace consistency check (45): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.217556E-03 gpd= 1.718949E-01 sum= 1.719319E-01
```

47. An unidentified mismatch in a photon production sum  
*check...ace consistency check (46): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.220836E-03 gpd= 1.462013E-01 sum= 1.462301E-01
```

48. An unidentified mismatch in a photon production sum  
*check...ace consistency check (47): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.225755E-03 gpd= 1.175432E-01 sum= 1.175597E-01
```

49. An unidentified mismatch in a photon production sum  
*check...ace consistency check (48): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.227395E-03 gpd= 1.098954E-01 sum= 1.099283E-01
```

50. An unidentified mismatch in a photon production sum  
*check...ace consistency check (49): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.229035E-03 gpd= 1.030639E-01 sum= 1.030502E-01
```

51. An unidentified mismatch in a photon production sum  
*check...ace consistency check (50): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.232314E-03 gpd= 9.116257E-02 sum= 9.118826E-02
```

52. An unidentified mismatch in a photon production sum  
*check...ace consistency check (51): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.238872E-03 gpd= 7.311734E-02 sum= 7.313358E-02
```

53. An unidentified mismatch in a photon production sum  
*check...ace consistency check (52): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.241556E-03 gpd= 6.736009E-02 sum= 6.735283E-02
```

54. An unidentified mismatch in a photon production sum  
*check...ace consistency check (53): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.244239E-03 gpd= 6.229030E-02 sum= 6.230632E-02
```

55. An unidentified mismatch in a photon production sum  
*check...ace consistency check (54): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.246922E-03 gpd= 5.782202E-02 sum= 5.783628E-02
```

56. An unidentified mismatch in a photon production sum  
*check...ace consistency check (55): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.252289E-03 gpd= 5.030332E-02 sum= 5.032991E-02
```

57. An unidentified mismatch in a photon production sum  
*check...ace consistency check (56): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.308038E-03 gpd= 1.980802E-02 sum= 1.980541E-02
```

58. An unidentified mismatch in a photon production sum  
*check...ace consistency check (57): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.318771E-03 gpd= 1.774579E-02 sum= 1.774258E-02
```

59. An unidentified mismatch in a photon production sum  
*check...ace consistency check (58): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.355739E-03 gpd= 1.365967E-02 sum= 1.365782E-02
```

60. An unidentified mismatch in a photon production sum  
*check...ace consistency check (59): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.386744E-03 gpd= 1.256325E-02 sum= 1.256082E-02
```

61. An unidentified mismatch in a photon production sum  
*check...ace consistency check (60): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.396285E-03 gpd= 1.262293E-02 sum= 1.262427E-02
```

62. An unidentified mismatch in a photon production sum  
*check...ace consistency check (61): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.405825E-03 gpd= 1.294020E-02 sum= 1.293868E-02
```

63. An unidentified mismatch in a photon production sum  
*check...ace consistency check (62): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.415365E-03 gpd= 1.359661E-02 sum= 1.359378E-02
```

64. An unidentified mismatch in a photon production sum  
*check...ace consistency check (63): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.424905E-03 gpd= 1.477244E-02 sum= 1.477574E-02
```

65. An unidentified mismatch in a photon production sum  
*check...ace consistency check (64): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.435042E-03 gpd= 1.702138E-02 sum= 1.701819E-02
```

66. An unidentified mismatch in a photon production sum  
*check...ace consistency check (65): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.445178E-03 gpd= 2.126629E-02 sum= 2.126336E-02
```

67. An unidentified mismatch in a photon production sum  
*check...ace consistency check (66): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.459935E-03 gpd= 3.830216E-02 sum= 3.829822E-02
```

68. An unidentified mismatch in a photon production sum  
*check...ace consistency check (67): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.540504E-03 gpd= 1.861551E-02 sum= 1.861930E-02
```

69. An unidentified mismatch in a photon production sum  
*check...ace consistency check (68): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.556335E-03 gpd= 1.431913E-02 sum= 1.431704E-02
```

70. An unidentified mismatch in a photon production sum  
*check...ace consistency check (69): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.568833E-03 gpd= 1.291109E-02 sum= 1.291316E-02
```

71. An unidentified mismatch in a photon production sum  
*check...ace consistency check (70): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.588830E-03 gpd= 1.215502E-02 sum= 1.215273E-02
```

72. An unidentified mismatch in a photon production sum  
*check...ace consistency check (71): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.626326E-03 gpd= 1.338457E-02 sum= 1.338818E-02
```

73. An unidentified mismatch in a photon production sum  
*check...ace consistency check (72): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.653822E-03 gpd= 1.700786E-02 sum= 1.700515E-02
```

74. An unidentified mismatch in a photon production sum  
*check...ace consistency check (73): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.681944E-03 gpd= 2.955592E-02 sum= 2.955949E-02
```

75. An unidentified mismatch in a photon production sum  
*check...ace consistency check (74): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.941927E-03 gpd= 2.841390E+00 sum= 2.841682E+00
```

76. An unidentified mismatch in a photon production sum  
*check...ace consistency check (75): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.944779E-03 gpd= 1.968513E+00 sum= 1.968257E+00
```

77. An unidentified mismatch in a photon production sum  
*check...ace consistency check (76): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.945136E-03 gpd= 1.887096E+00 sum= 1.887413E+00
```

78. An unidentified mismatch in a photon production sum  
*check...ace consistency check (77): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.945849E-03 gpd= 1.740117E+00 sum= 1.739870E+00
```

79. An unidentified mismatch in a photon production sum  
*check...ace consistency check (78): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.988334E-03 gpd= 1.497358E-01 sum= 1.497544E-01
```

80. An unidentified mismatch in a photon production sum  
*check...ace consistency check (79): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.990279E-03 gpd= 1.406093E-01 sum= 1.406241E-01
```

81. An unidentified mismatch in a photon production sum  
*check...ace consistency check (80): Gamma sum*

```
check photon production sum
  consis: mismatch at 2.996112E-03 gpd= 1.178145E-01 sum= 1.178463E-01
```

82. An unidentified mismatch in a photon production sum  
*check...ace consistency check (81): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.000000E-03 gpd= 1.057317E-01 sum= 1.056984E-01
```

83. An unidentified mismatch in a photon production sum  
*check...ace consistency check (82): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.003589E-03 gpd= 9.617721E-02 sum= 9.614088E-02
```

84. An unidentified mismatch in a photon production sum  
*check...ace consistency check (83): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.010766E-03 gpd= 8.066734E-02 sum= 8.065835E-02
```

85. An unidentified mismatch in a photon production sum  
*check...ace consistency check (84): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.014354E-03 gpd= 7.436917E-02 sum= 7.435876E-02
```

86. An unidentified mismatch in a photon production sum  
*check...ace consistency check (85): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.017943E-03 gpd= 6.879939E-02 sum= 6.880963E-02
```

87. An unidentified mismatch in a photon production sum  
*check...ace consistency check (86): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.021531E-03 gpd= 6.391513E-02 sum= 6.390823E-02
```

88. An unidentified mismatch in a photon production sum  
*check...ace consistency check (87): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.025120E-03 gpd= 5.954502E-02 sum= 5.955552E-02
```

89. An unidentified mismatch in a photon production sum  
*check...ace consistency check (88): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.028708E-03 gpd= 5.568905E-02 sum= 5.567431E-02
```

90. An unidentified mismatch in a photon production sum  
*check...ace consistency check (89): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.043061E-03 gpd= 4.373563E-02 sum= 4.375692E-02
```

91. An unidentified mismatch in a photon production sum  
*check...ace consistency check (90): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.050238E-03 gpd= 3.936559E-02 sum= 3.939519E-02
```

92. An unidentified mismatch in a photon production sum  
*check...ace consistency check (91): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.057414E-03 gpd= 3.580958E-02 sum= 3.580369E-02
```

93. An unidentified mismatch in a photon production sum  
*check...ace consistency check (92): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.063018E-03 gpd= 3.341035E-02 sum= 3.343682E-02
```

94. An unidentified mismatch in a photon production sum  
*check...ace consistency check (93): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.068622E-03 gpd= 3.139668E-02 sum= 3.140314E-02
```

95. An unidentified mismatch in a photon production sum  
*check...ace consistency check (94): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.079830E-03 gpd= 2.814052E-02 sum= 2.812741E-02
```

96. An unidentified mismatch in a photon production sum  
*check...ace consistency check (95): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.091038E-03 gpd= 2.573259E-02 sum= 2.572950E-02
```

97. An unidentified mismatch in a photon production sum  
*check...ace consistency check (96): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.111613E-03 gpd= 2.319574E-02 sum= 2.319858E-02
```

98. An unidentified mismatch in a photon production sum  
*check...ace consistency check (97): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.120980E-03 gpd= 2.279686E-02 sum= 2.279368E-02
```

99. An unidentified mismatch in a photon production sum  
*check...ace consistency check (98): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.147327E-03 gpd= 2.467522E-02 sum= 2.467791E-02
```

100. An unidentified mismatch in a photon production sum  
*check...ace consistency check (99): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.258485E-03 gpd= 1.639243E-01 sum= 1.638981E-01
```

101. An unidentified mismatch in a photon production sum  
*check...ace consistency check (100): Gamma sum*

- ```

check photon production sum
  consis: mismatch at 3.261915E-03 gpd= 1.270626E-01 sum= 1.270482E-01

```
102. An unidentified mismatch in a photon production sum  
*check...ace consistency check (101): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 3.263630E-03 gpd= 1.132342E-01 sum= 1.132638E-01

```
103. An unidentified mismatch in a photon production sum  
*check...ace consistency check (102): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 3.264978E-03 gpd= 1.040295E-01 sum= 1.040113E-01

```
104. An unidentified mismatch in a photon production sum  
*check...ace consistency check (103): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 3.266325E-03 gpd= 9.589517E-02 sum= 9.590998E-02

```
105. An unidentified mismatch in a photon production sum  
*check...ace consistency check (104): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 3.269020E-03 gpd= 8.245212E-02 sum= 8.244335E-02

```
106. An unidentified mismatch in a photon production sum  
*check...ace consistency check (105): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 3.271715E-03 gpd= 7.179190E-02 sum= 7.178249E-02

```
107. An unidentified mismatch in a photon production sum  
*check...ace consistency check (106): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 3.274409E-03 gpd= 6.318669E-02 sum= 6.320090E-02

```
108. An unidentified mismatch in a photon production sum  
*check...ace consistency check (107): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 3.280289E-03 gpd= 4.944409E-02 sum= 4.943283E-02

```
109. An unidentified mismatch in a photon production sum  
*check...ace consistency check (108): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 3.283229E-03 gpd= 4.434950E-02 sum= 4.433678E-02

```
110. An unidentified mismatch in a photon production sum  
*check...ace consistency check (109): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 3.286169E-03 gpd= 4.011115E-02 sum= 4.009751E-02

```

111. An unidentified mismatch in a photon production sum  
*check...ace consistency check (110): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.291559E-03 gpd= 3.394630E-02 sum= 3.393419E-02
```

112. An unidentified mismatch in a photon production sum  
*check...ace consistency check (111): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.323898E-03 gpd= 1.814877E-02 sum= 1.814680E-02
```

113. An unidentified mismatch in a photon production sum  
*check...ace consistency check (112): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.338597E-03 gpd= 1.817802E-02 sum= 1.818044E-02
```

114. An unidentified mismatch in a photon production sum  
*check...ace consistency check (113): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.345947E-03 gpd= 2.338656E-02 sum= 2.338409E-02
```

115. An unidentified mismatch in a photon production sum  
*check...ace consistency check (114): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.349622E-03 gpd= 3.180095E-02 sum= 3.180466E-02
```

116. An unidentified mismatch in a photon production sum  
*check...ace consistency check (115): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.371545E-03 gpd= 3.058788E-02 sum= 3.058456E-02
```

117. An unidentified mismatch in a photon production sum  
*check...ace consistency check (116): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.378179E-03 gpd= 1.697347E-02 sum= 1.697169E-02
```

118. An unidentified mismatch in a photon production sum  
*check...ace consistency check (117): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.382772E-03 gpd= 1.363938E-02 sum= 1.363608E-02
```

119. An unidentified mismatch in a photon production sum  
*check...ace consistency check (118): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.398081E-03 gpd= 9.551879E-03 sum= 9.555187E-03
```

120. An unidentified mismatch in a photon production sum  
*check...ace consistency check (119): Gamma sum*

- ```

check photon production sum
  consis: mismatch at 3.407413E-03 gpd= 8.554537E-03 sum= 8.553086E-03
```
121. An unidentified mismatch in a photon production sum  
*check...ace consistency check (120): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 3.416745E-03 gpd= 7.908148E-03 sum= 7.906444E-03
```
122. An unidentified mismatch in a photon production sum  
*check...ace consistency check (121): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 3.458738E-03 gpd= 6.623608E-03 sum= 6.627207E-03
```
123. An unidentified mismatch in a photon production sum  
*check...ace consistency check (122): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 3.482067E-03 gpd= 6.494835E-03 sum= 6.497403E-03
```
124. An unidentified mismatch in a photon production sum  
*check...ace consistency check (123): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 3.507730E-03 gpd= 6.746803E-03 sum= 6.744549E-03
```
125. An unidentified mismatch in a photon production sum  
*check...ace consistency check (124): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 3.520561E-03 gpd= 7.058872E-03 sum= 7.057652E-03
```
126. An unidentified mismatch in a photon production sum  
*check...ace consistency check (125): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 3.533392E-03 gpd= 7.546315E-03 sum= 7.545198E-03
```
127. An unidentified mismatch in a photon production sum  
*check...ace consistency check (126): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 3.543307E-03 gpd= 8.085121E-03 sum= 8.083881E-03
```
128. An unidentified mismatch in a photon production sum  
*check...ace consistency check (127): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 3.563137E-03 gpd= 9.817122E-03 sum= 9.814470E-03
```
129. An unidentified mismatch in a photon production sum  
*check...ace consistency check (128): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 3.573052E-03 gpd= 1.121132E-02 sum= 1.120940E-02
```

130. An unidentified mismatch in a photon production sum  
*check...ace consistency check (129): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.579468E-03 gpd= 1.241736E-02 sum= 1.241443E-02
```

131. An unidentified mismatch in a photon production sum  
*check...ace consistency check (130): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.676384E-03 gpd= 2.127891E-01 sum= 2.128240E-01
```

132. An unidentified mismatch in a photon production sum  
*check...ace consistency check (131): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.677677E-03 gpd= 1.832392E-01 sum= 1.832167E-01
```

133. An unidentified mismatch in a photon production sum  
*check...ace consistency check (132): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.680264E-03 gpd= 1.402614E-01 sum= 1.402802E-01
```

134. An unidentified mismatch in a photon production sum  
*check...ace consistency check (133): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.682850E-03 gpd= 1.112248E-01 sum= 1.112448E-01
```

135. An unidentified mismatch in a photon production sum  
*check...ace consistency check (134): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.703893E-03 gpd= 3.469539E-02 sum= 3.469905E-02
```

136. An unidentified mismatch in a photon production sum  
*check...ace consistency check (135): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.821327E-03 gpd= 3.202131E-02 sum= 3.201803E-02
```

137. An unidentified mismatch in a photon production sum  
*check...ace consistency check (136): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.825784E-03 gpd= 2.522433E-02 sum= 2.522696E-02
```

138. An unidentified mismatch in a photon production sum  
*check...ace consistency check (137): Gamma sum*

```
check photon production sum
  consis: mismatch at 3.828823E-03 gpd= 2.191562E-02 sum= 2.191296E-02
```

139. An unidentified mismatch in a photon production sum  
*check...ace consistency check (138): Gamma sum*

```

check photon production sum
  consis: mismatch at 3.837938E-03 gpd= 1.553334E-02 sum= 1.552965E-02

140. An unidentified mismatch in a photon production sum
check...ace consistency check (139): Gamma sum

check photon production sum
  consis: mismatch at 3.846852E-03 gpd= 1.201945E-02 sum= 1.201720E-02

141. An unidentified mismatch in a photon production sum
check...ace consistency check (140): Gamma sum

check photon production sum
  consis: mismatch at 3.863463E-03 gpd= 8.522659E-03 sum= 8.524501E-03

142. An unidentified mismatch in a photon production sum
check...ace consistency check (141): Gamma sum

check photon production sum
  consis: mismatch at 3.886557E-03 gpd= 6.274064E-03 sum= 6.272961E-03

143. An unidentified mismatch in a photon production sum
check...ace consistency check (142): Gamma sum

check photon production sum
  consis: mismatch at 3.914108E-03 gpd= 5.029990E-03 sum= 5.029297E-03

144. An unidentified mismatch in a photon production sum
check...ace consistency check (143): Gamma sum

check photon production sum
  consis: mismatch at 3.927883E-03 gpd= 4.670836E-03 sum= 4.669657E-03

145. An unidentified mismatch in a photon production sum
check...ace consistency check (144): Gamma sum

check photon production sum
  consis: mismatch at 3.941658E-03 gpd= 4.414268E-03 sum= 4.413584E-03

146. An unidentified mismatch in a photon production sum
check...ace consistency check (145): Gamma sum

check photon production sum
  consis: mismatch at 3.970829E-03 gpd= 4.097725E-03 sum= 4.099442E-03

147. An unidentified mismatch in a photon production sum
check...ace consistency check (146): Gamma sum

check photon production sum
  consis: mismatch at 4.000000E-03 gpd= 3.999133E-03 sum= 3.995631E-03

148. An unidentified mismatch in a photon production sum
check...ace consistency check (147): Gamma sum

check photon production sum
  consis: mismatch at 4.025335E-03 gpd= 4.041607E-03 sum= 4.040034E-03

```

149. An unidentified mismatch in a photon production sum  
*check...ace consistency check (148): Gamma sum*

```
check photon production sum
  consis: mismatch at 4.050669E-03 gpd= 4.203692E-03 sum= 4.202147E-03
```

150. An unidentified mismatch in a photon production sum  
*check...ace consistency check (149): Gamma sum*

```
check photon production sum
  consis: mismatch at 4.101337E-03 gpd= 4.984854E-03 sum= 4.983551E-03
```

151. An unidentified mismatch in a photon production sum  
*check...ace consistency check (150): Gamma sum*

```
check photon production sum
  consis: mismatch at 4.116183E-03 gpd= 5.381908E-03 sum= 5.382758E-03
```

152. An unidentified mismatch in a photon production sum  
*check...ace consistency check (151): Gamma sum*

```
check photon production sum
  consis: mismatch at 4.131028E-03 gpd= 5.902797E-03 sum= 5.901810E-03
```

153. An unidentified mismatch in a photon production sum  
*check...ace consistency check (152): Gamma sum*

```
check photon production sum
  consis: mismatch at 4.160718E-03 gpd= 7.486864E-03 sum= 7.483524E-03
```

154. An unidentified mismatch in a photon production sum  
*check...ace consistency check (153): Gamma sum*

```
check photon production sum
  consis: mismatch at 4.171605E-03 gpd= 8.349359E-03 sum= 8.351580E-03
```

155. An unidentified mismatch in a photon production sum  
*check...ace consistency check (154): Gamma sum*

```
check photon production sum
  consis: mismatch at 4.182491E-03 gpd= 9.459506E-03 sum= 9.461992E-03
```

156. An unidentified mismatch in a photon production sum  
*check...ace consistency check (155): Gamma sum*

```
check photon production sum
  consis: mismatch at 4.210201E-03 gpd= 1.419897E-02 sum= 1.420147E-02
```

157. An unidentified mismatch in a photon production sum  
*check...ace consistency check (156): Gamma sum*

```
check photon production sum
  consis: mismatch at 4.222077E-03 gpd= 1.783680E-02 sum= 1.783392E-02
```

158. An unidentified mismatch in a photon production sum  
*check...ace consistency check (157): Gamma sum*

```

check photon production sum
  consis: mismatch at 4.228015E-03 gpd= 2.031751E-02 sum= 2.032000E-02

159. An unidentified mismatch in a photon production sum
check...ace consistency check (158): Gamma sum

check photon production sum
  consis: mismatch at 4.369571E-03 gpd= 1.545265E-01 sum= 1.545093E-01

160. An unidentified mismatch in a photon production sum
check...ace consistency check (159): Gamma sum

check photon production sum
  consis: mismatch at 4.375332E-03 gpd= 9.493429E-02 sum= 9.496592E-02

161. An unidentified mismatch in a photon production sum
check...ace consistency check (160): Gamma sum

check photon production sum
  consis: mismatch at 4.411341E-03 gpd= 2.152478E-02 sum= 2.152094E-02

162. An unidentified mismatch in a photon production sum
check...ace consistency check (161): Gamma sum

check photon production sum
  consis: mismatch at 4.444862E-03 gpd= 1.175805E-02 sum= 1.176163E-02

163. An unidentified mismatch in a photon production sum
check...ace consistency check (162): Gamma sum

check photon production sum
  consis: mismatch at 4.452194E-03 gpd= 1.076771E-02 sum= 1.076525E-02

164. An unidentified mismatch in a photon production sum
check...ace consistency check (163): Gamma sum

check photon production sum
  consis: mismatch at 4.463717E-03 gpd= 9.593785E-03 sum= 9.595893E-03

165. An unidentified mismatch in a photon production sum
check...ace consistency check (164): Gamma sum

check photon production sum
  consis: mismatch at 4.475240E-03 gpd= 8.786940E-03 sum= 8.785370E-03

166. An unidentified mismatch in a photon production sum
check...ace consistency check (165): Gamma sum

check photon production sum
  consis: mismatch at 4.536522E-03 gpd= 8.717341E-03 sum= 8.718976E-03

167. An unidentified mismatch in a photon production sum
check...ace consistency check (166): Gamma sum

check photon production sum
  consis: mismatch at 4.552235E-03 gpd= 1.038958E-02 sum= 1.039246E-02

```

168. An unidentified mismatch in a photon production sum  
*check...ace consistency check (167): Gamma sum*

```
check photon production sum
  consis: mismatch at 4.557996E-03 gpd= 1.143050E-02 sum= 1.143341E-02
```

169. An unidentified mismatch in a photon production sum  
*check...ace consistency check (168): Gamma sum*

```
check photon production sum
  consis: mismatch at 4.569519E-03 gpd= 1.481785E-02 sum= 1.481964E-02
```

170. An unidentified mismatch in a photon production sum  
*check...ace consistency check (169): Gamma sum*

```
check photon production sum
  consis: mismatch at 4.665803E-03 gpd= 1.661440E-02 sum= 1.661244E-02
```

171. An unidentified mismatch in a photon production sum  
*check...ace consistency check (170): Gamma sum*

```
check photon production sum
  consis: mismatch at 4.679141E-03 gpd= 1.140576E-02 sum= 1.140268E-02
```

172. An unidentified mismatch in a photon production sum  
*check...ace consistency check (171): Gamma sum*

```
check photon production sum
  consis: mismatch at 4.684328E-03 gpd= 1.020705E-02 sum= 1.020423E-02
```

173. An unidentified mismatch in a photon production sum  
*check...ace consistency check (172): Gamma sum*

```
check photon production sum
  consis: mismatch at 4.694702E-03 gpd= 8.526269E-03 sum= 8.529118E-03
```

174. An unidentified mismatch in a photon production sum  
*check...ace consistency check (173): Gamma sum*

```
check photon production sum
  consis: mismatch at 4.702854E-03 gpd= 7.643205E-03 sum= 7.641435E-03
```

175. An unidentified mismatch in a photon production sum  
*check...ace consistency check (174): Gamma sum*

```
check photon production sum
  consis: mismatch at 4.711005E-03 gpd= 6.990491E-03 sum= 6.994471E-03
```

176. An unidentified mismatch in a photon production sum  
*check...ace consistency check (175): Gamma sum*

```
check photon production sum
  consis: mismatch at 4.740646E-03 gpd= 5.748928E-03 sum= 5.747772E-03
```

177. An unidentified mismatch in a photon production sum  
*check...ace consistency check (176): Gamma sum*

- ```

check photon production sum
  consis: mismatch at 4.753984E-03 gpd= 5.497125E-03 sum= 5.499023E-03

```
178. An unidentified mismatch in a photon production sum  
*check...ace consistency check (177): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 4.780660E-03 gpd= 5.313395E-03 sum= 5.312368E-03

```
179. An unidentified mismatch in a photon production sum  
*check...ace consistency check (178): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 4.798445E-03 gpd= 5.355804E-03 sum= 5.358060E-03

```
180. An unidentified mismatch in a photon production sum  
*check...ace consistency check (179): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 4.834013E-03 gpd= 5.794505E-03 sum= 5.796616E-03

```
181. An unidentified mismatch in a photon production sum  
*check...ace consistency check (180): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 4.882920E-03 gpd= 7.405328E-03 sum= 7.404254E-03

```
182. An unidentified mismatch in a photon production sum  
*check...ace consistency check (181): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 4.898482E-03 gpd= 8.338667E-03 sum= 8.340407E-03

```
183. An unidentified mismatch in a photon production sum  
*check...ace consistency check (182): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 4.914043E-03 gpd= 9.647075E-03 sum= 9.649365E-03

```
184. An unidentified mismatch in a photon production sum  
*check...ace consistency check (183): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 4.922194E-03 gpd= 1.055061E-02 sum= 1.055395E-02

```
185. An unidentified mismatch in a photon production sum  
*check...ace consistency check (184): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 4.959244E-03 gpd= 1.872509E-02 sum= 1.872295E-02

```
186. An unidentified mismatch in a photon production sum  
*check...ace consistency check (185): Gamma sum*
- ```

check photon production sum
  consis: mismatch at 4.975917E-03 gpd= 2.787549E-02 sum= 2.787263E-02

```